

Fig. 1

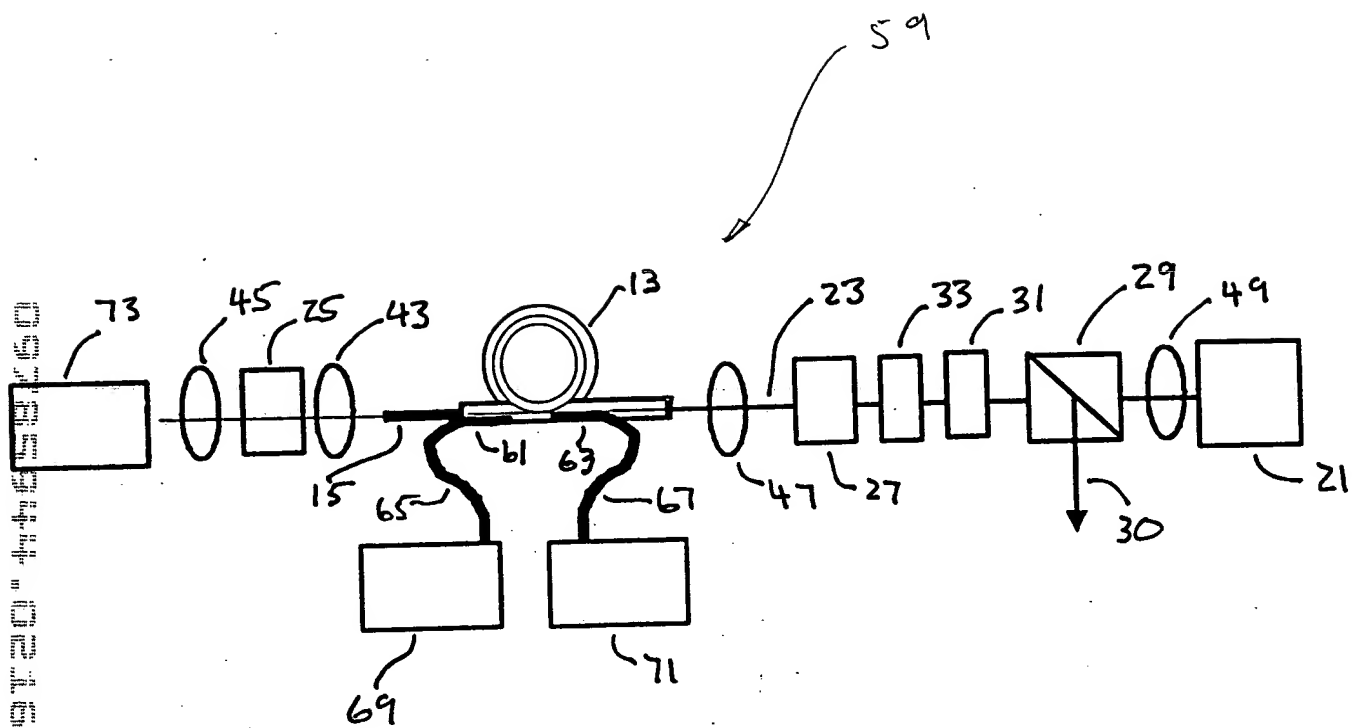


Fig. 4

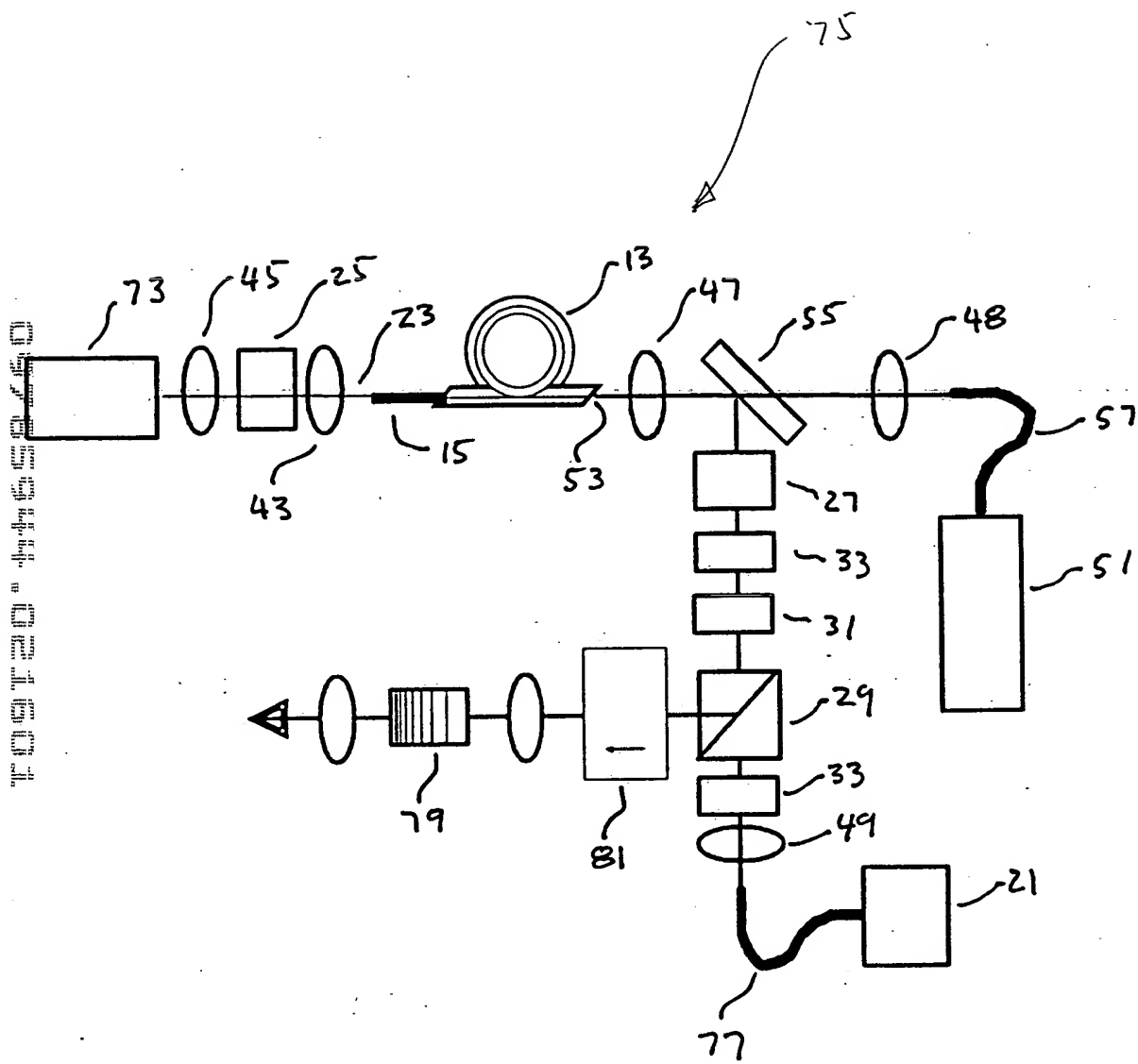


Fig. 5

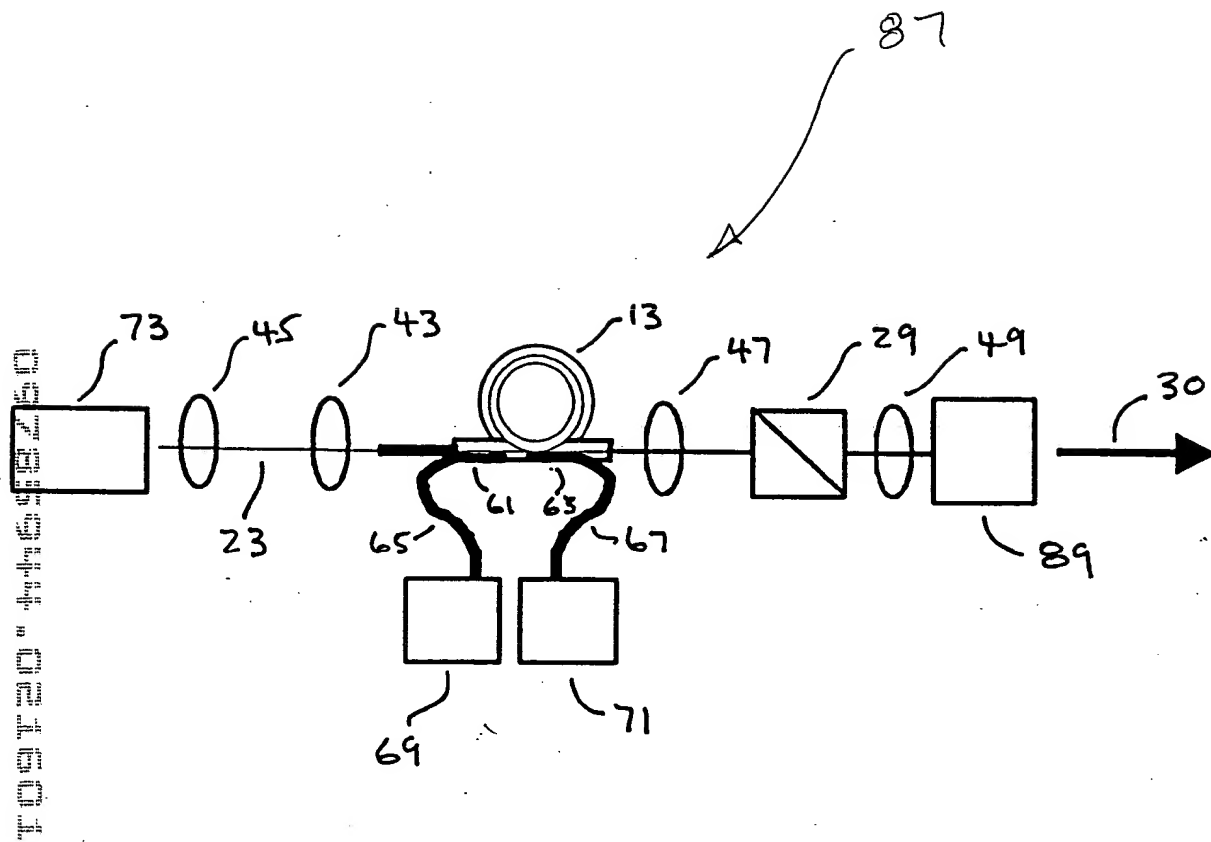


Fig. 8

09705944-024604

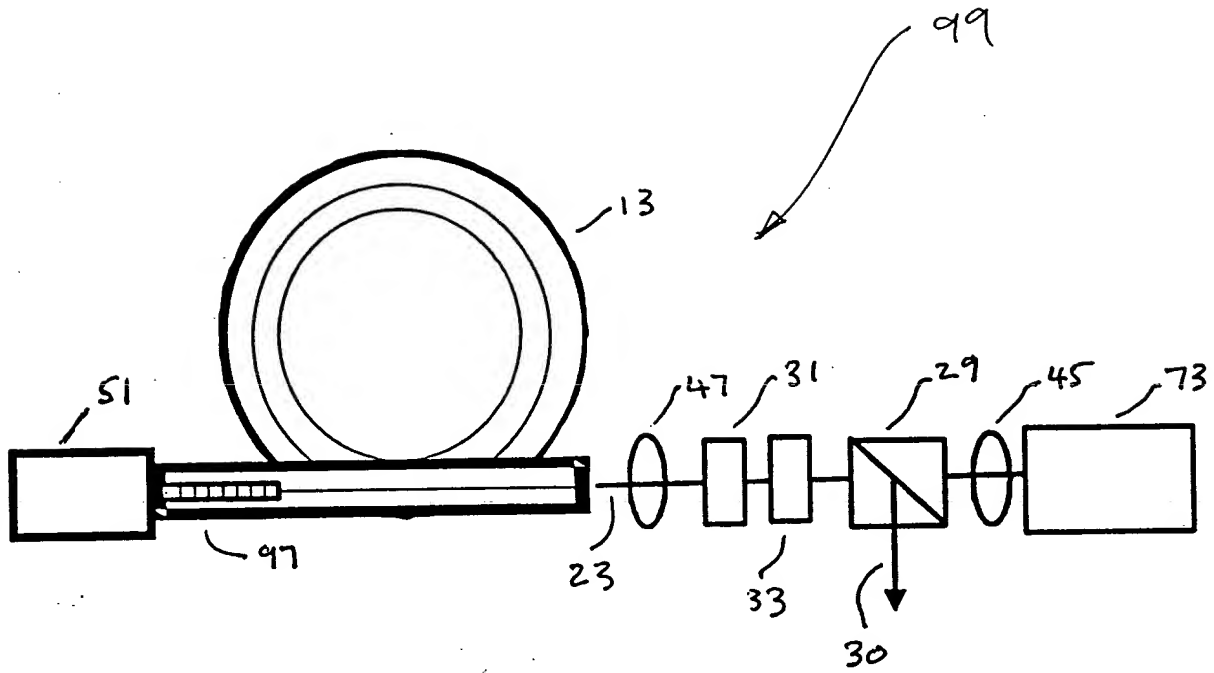


Fig. 10

A schematic diagram of an optical system 105. The system includes a light source 51 connected to a lens 48. The light path continues through a beam splitter 55 and a lens 47. It then reflects off a circular component 13, passes through a lens 43, and is directed by a mirror 30. A control unit 101 is connected to the beam splitter 55, and a detector 21 is connected to the control unit 101.

Fig. 11

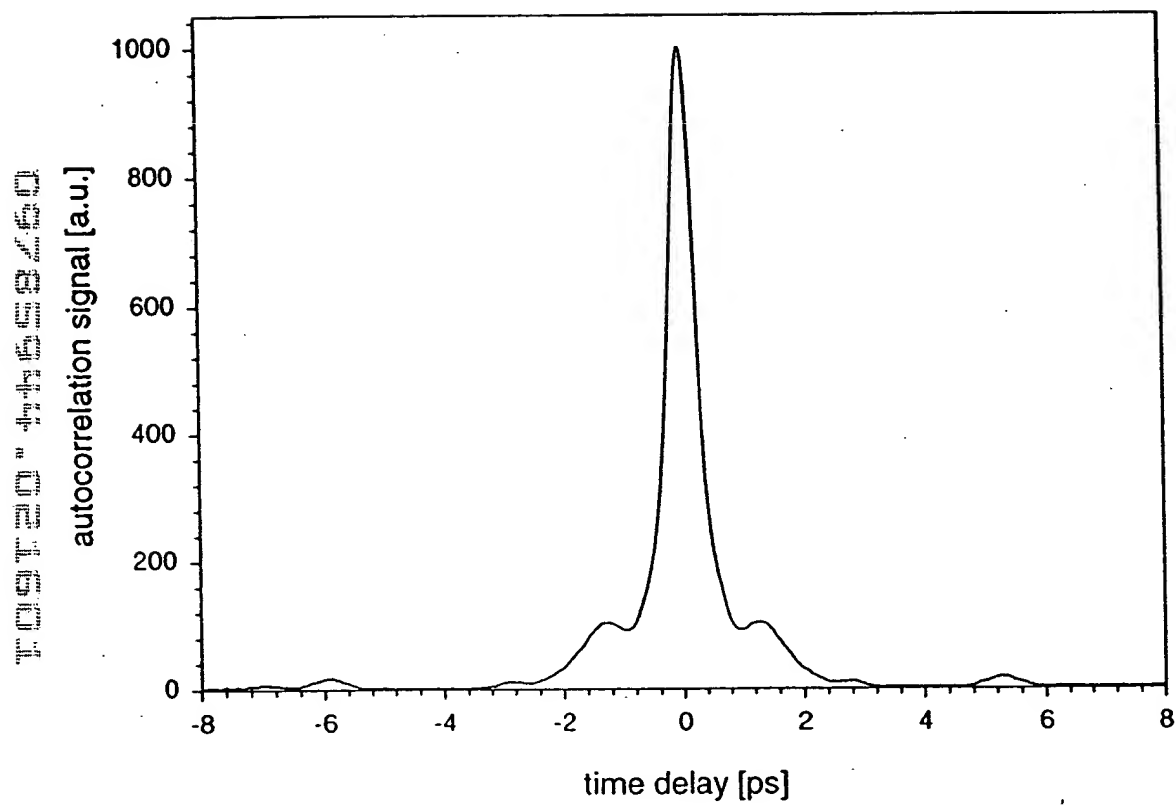


Fig 2

1510 1520 1530 1540 1550 1560

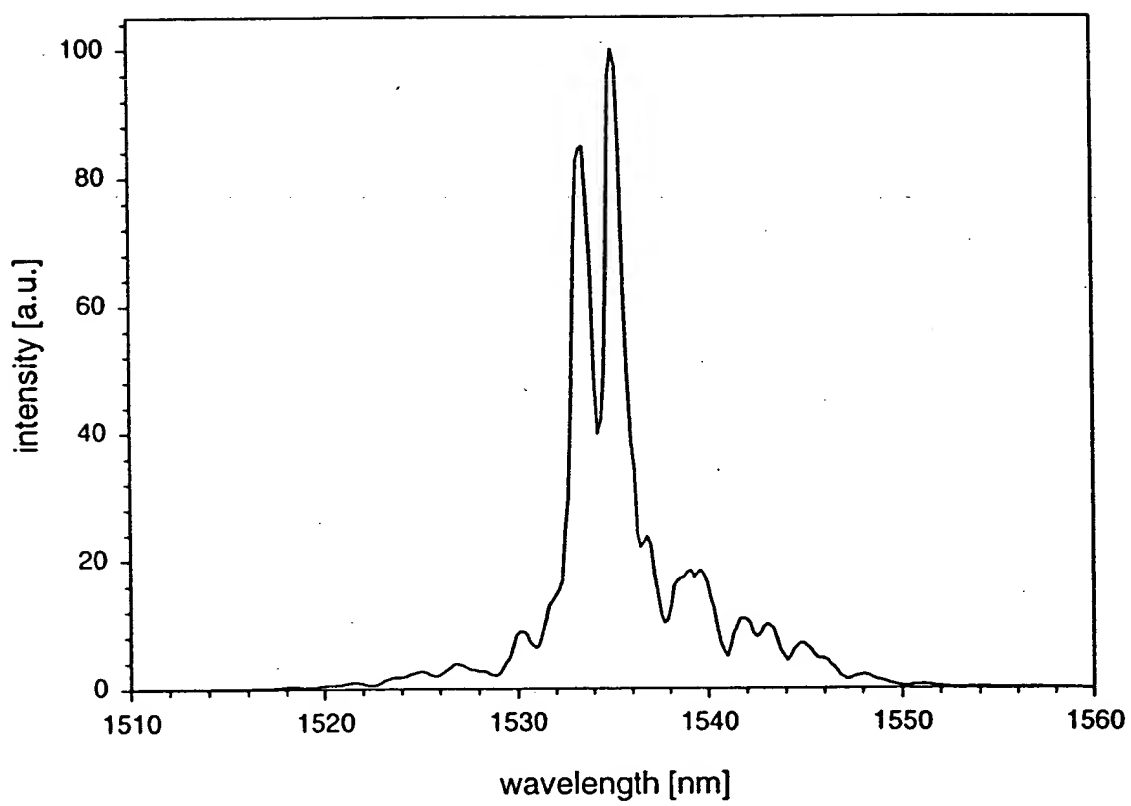


Fig. 3

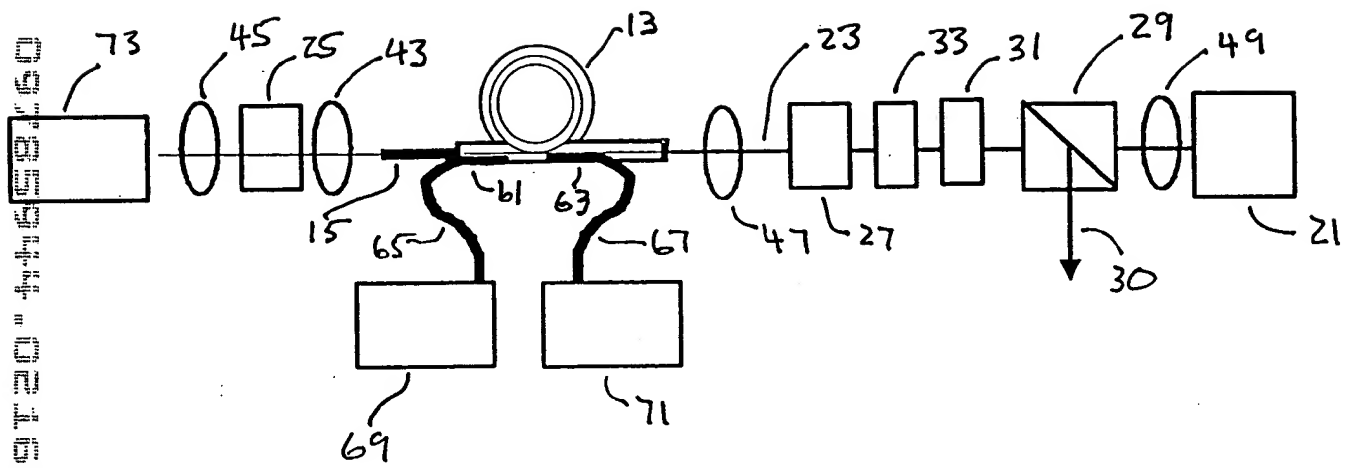


Fig. 4

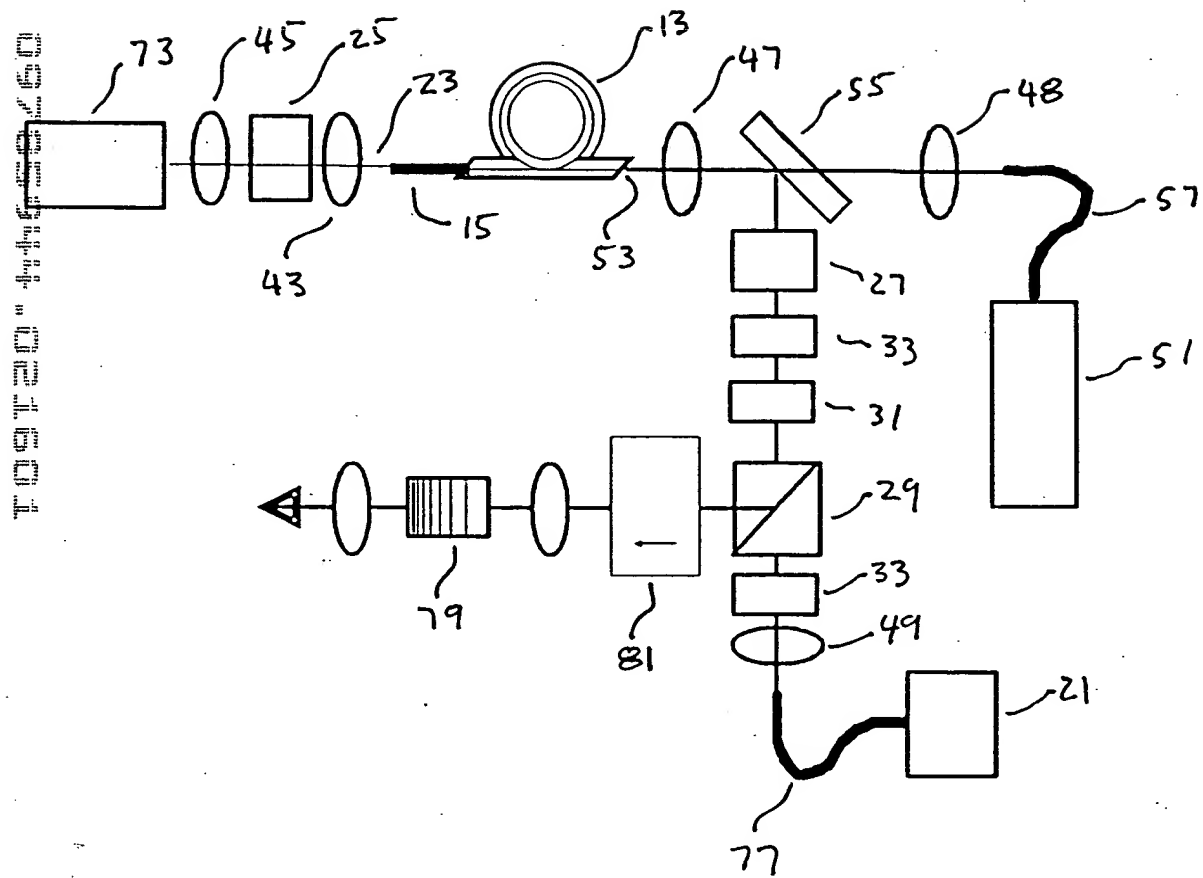


Fig. 5

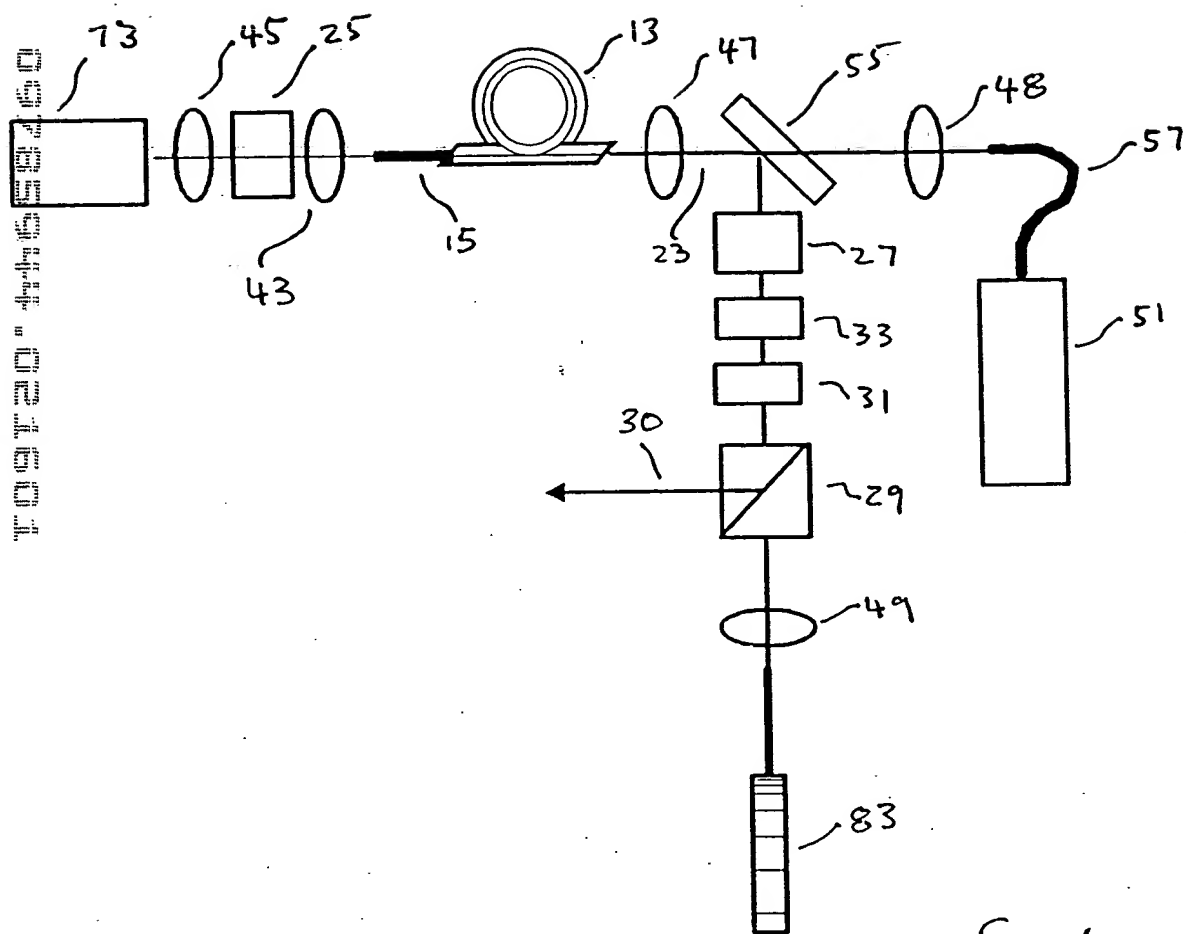


Fig. 6

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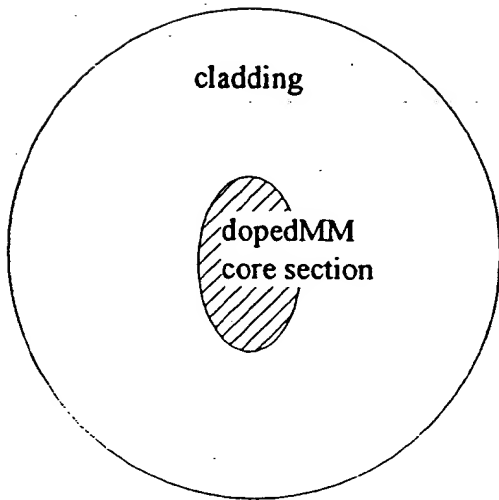


Fig. 7a

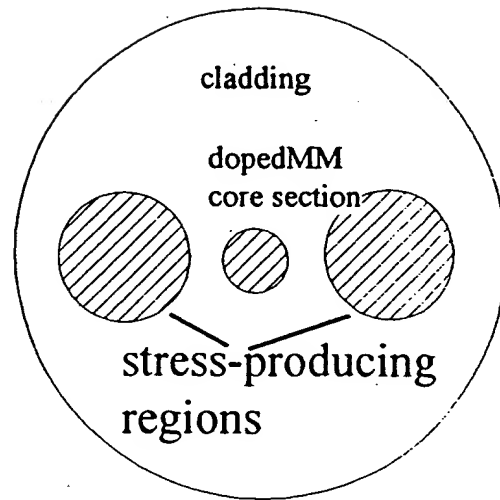


Fig. 7b

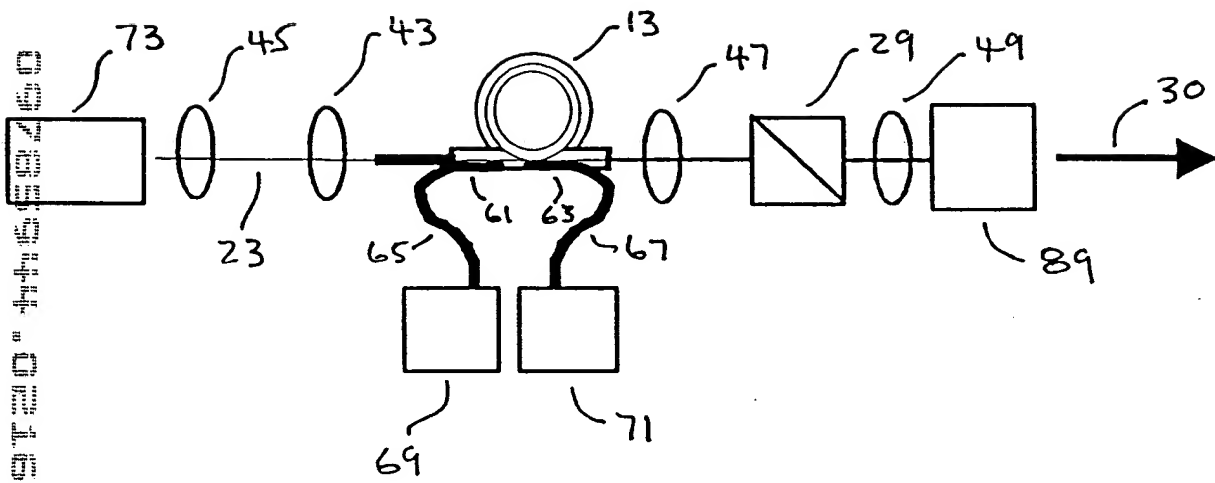
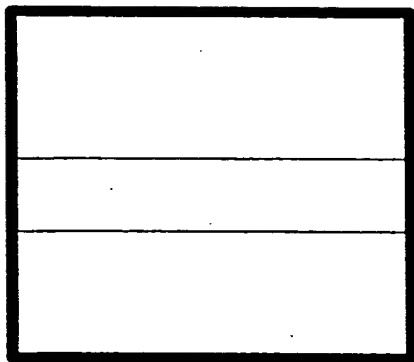


Fig. 8

MM fiber

Free-space coupling



SM fiber

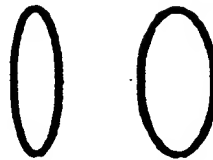
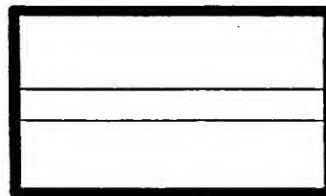
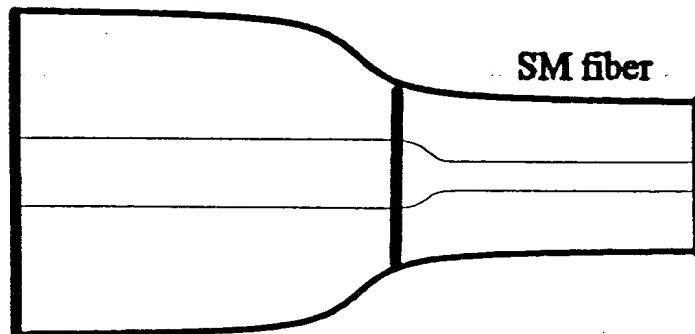


Fig. 9a

MM fiber

Spliced fibers

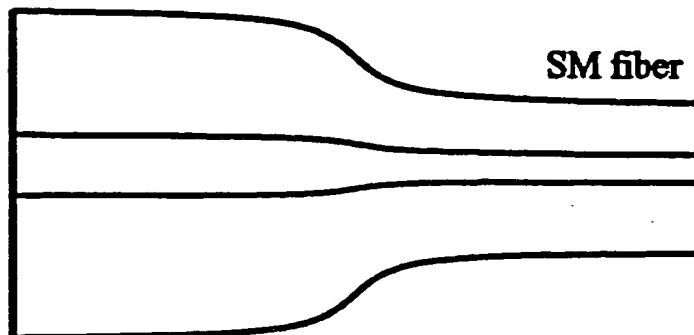


SM fiber

Fig. 9b

MM to SM taper

MM fiber



SM fiber

Fig. 9c

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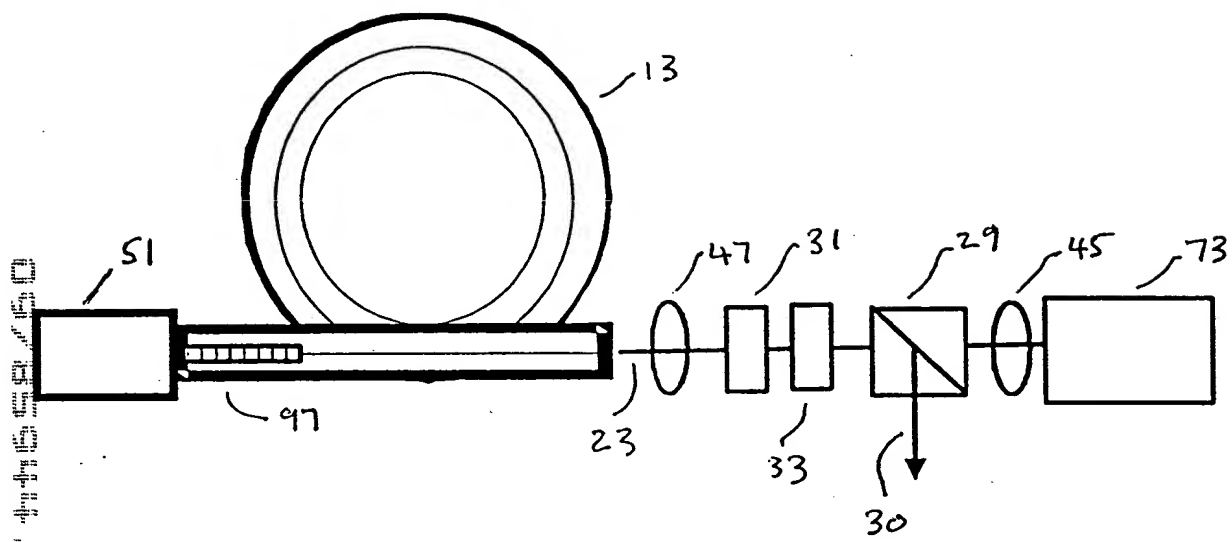


Fig. 10

09785944-021604

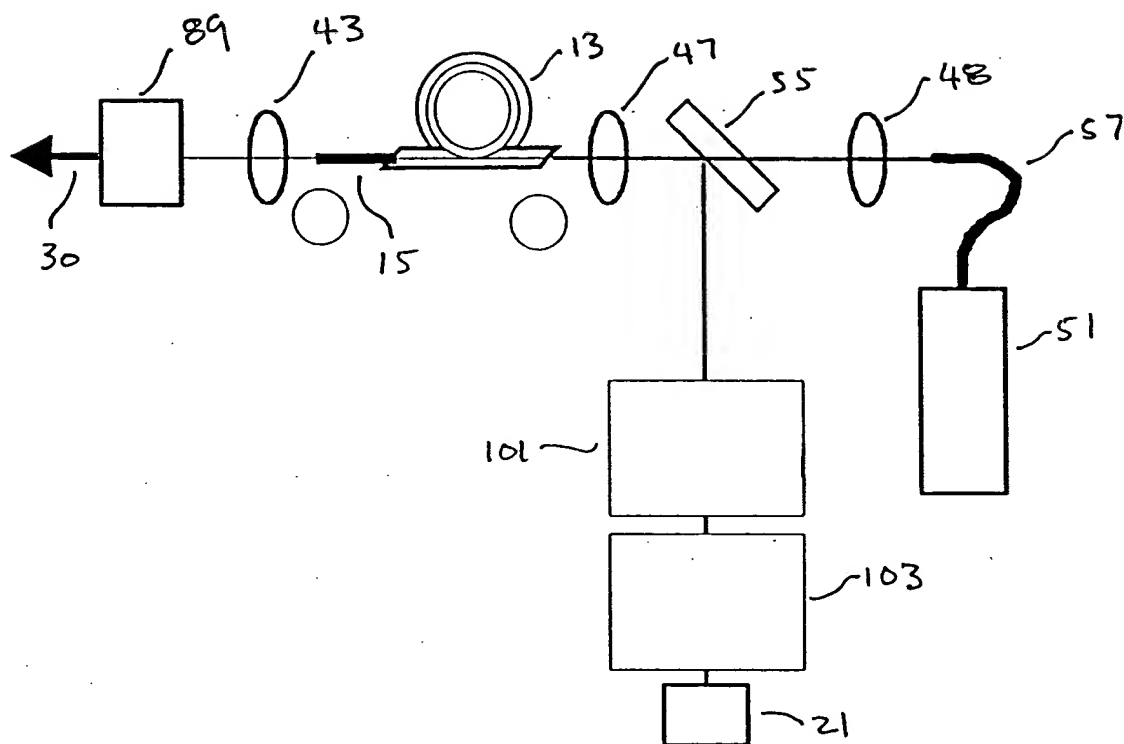


Fig. 11